

**(12) INTERNATIONAL APPLICATION PUBLISHED IN ACCORDANCE WITH
THE PATENT COOPERATION TREATY (PCT)**

(19) World Organization for Intellectual Property WIPO
International Bureau

(43) International Publication Date: July 14, 2005 (07/14/2005)	PCT	(10) International Publication Number: WO 2005/064178 A1
(51) International Patent Classification⁷: <i>F16D 9/02</i>		(81) Designated States (<i>unless otherwise indicated, for all types of national protection available</i>): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
(21) International Reference: PCT/EP2004/014190		(84) Designated States (<i>unless otherwise indicated, for all types of regional protection available</i>): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
(22) International Application Date: December 13, 2004 (12/13/2004)		Published: - <i>With international search report</i>
(25) Language of Submission: German		<i>For explanation of the two-letter [country] codes and of the other abbreviations ("Guidance Notes on Codes and Abbreviations"), refer to the beginning of each regular issue of the PCT Gazette.</i>
(26) Language of Publication: German		
(30) Priority Information: 103 61 440.0 December 23, 2003 (12/23/2003) DE		
(71) Applicant (<i>for all designated states except US</i>): VOITH TURBO GMBH & CO. KG [DE/DE]; Alexanderstrasse 2, 89522 Heidenheim (DE).		
(72) Inventors; and		
(75) Inventors / Applicants (<i>only for US</i>): FRANK Anton [DE/DE]; Lietstrasse 24, 74586 Oberspeltach (DE); NÖHL, Oliver [DE/DE]; Bölgentaler Strasse 20/1, 74589 Satteldorf (DE); HOFFELD, Harold [DE/DE]; Brunnenstrasse 41, 74564 Crailsheim (DE).		
(74) Attorney: WEITZEL & PARTNERS; Friedenstrasse 10, 89522 Heidenheim (DE).		

(57) **Abstract:** The invention relates to a closure with a thermal safeguard function, comprising a closure body (1), which is used to seal a cavity (10) that is to be closed; a fusible safeguard element (2), which is inserted into the closure body and which keeps closed, at least indirectly, a through-opening (1.1), which is formed in the closure body. The inventive closure with a thermal safeguard function is characterized by the following features: the closure body comprises a bushing (3) provided with a continuous bore (3.1); the bushing is inserted into the through-opening of the closure body at an axial end (1.3) in such a way that the continuous bore and the region of the through-opening that is axially adjacent to the bushing are aligned flush with each other; the fusible safeguard element completely fills the continuous bore of the bushing over the entire cross section thereof along a given axial length.

